What Is Claimed Is:

1. A method of fabricating a fuel injector comprising:

providing a clean room;
fabricating a fuel group in the clean room;
fabricating a power group exterior of the clean room;
inserting the fuel group into the power group; and
fixedly connecting the fuel group to the power group.

- 2. The method according to claim 1, further comprising, prior to inserting the fuel group into the power group, performing at least one fuel flow tests on the fuel group.
- 3. The method according to claim 2, wherein the at least one fuel flow tests are performed exterior of the clean room.
- 4. The method according to claim 1, wherein the inserting is performed exterior of the clean room.
- 5. The method according to claim 4, wherein the fixedly connecting is performed exterior of the clean room.
- 6. The method according to claim 1, further comprising, prior to fabricating the fuel group, assembling a fuel tube, assembly, the fuel tube assembly including an inlet tube and a non-magnetic shell.
- 7. The method according to claim 6, wherein assembling the fuel tube assembly is performed exterior of the clean room.
- 8. The method according to claim 7, further comprising, after assembling the fuel tube assembly, performing a leak test on the fuel tube assembly.

- 9. The method according to claim 8, further comprising, after performing the leak test, washing the fuel tube assembly.
- 10. The method according to claim 9, further comprising, prior to washing the fuel tube assembly, placing the fuel tube assembly in the clean room.
- 11. The method according to claim 10, further comprising, after washing the fuel tube assembly, inserting a filter into the fuel tube assembly.
- 12. The method according to claim 11, further comprising, after installing the filter, inserting an armature assembly into the fuel tube assembly.
- 13. The method according to claim 1, wherein inserting the fuel group into the power group is performed exterior of the clean room.
- 14. The method according to claim 13, wherein the non-magnetic shell is inserted into the power group prior to the inlet tube.
- The method according to claim 1, wherein fabricating the power group comprises:

 providing a magnetic housing;

 providing an electro-magnetic solenoid coil; and

 fixedly connecting the magnetic housing to the electro-magnetic solenoid coil.
- 16. The method according to claim 15, wherein fabricating the power group further comprises fixedly connecting at least one electrical terminal to the electro-magnetic solenoid coil.

- 17. The method according to claim 16, wherein fabricating the power group further comprises forming a dielectric overmold over at least part of the magnetic housing, the electromagnetic solenoid coil, and the at least one electrical terminal.
- 18. The method according to claim 1, wherein inserting the fuel group into the power group is performed exterior of the clean room.
- 19. The method according to claim 18, wherein the fixedly connecting is performed exterior of the clean room.
- 20. The method according to claim 19, wherein the fixedly connecting comprises welding the power group to the fuel group.